OSD AUDIO

AMP120

Powered Amplifier

OWNER'S MANUAL

WARNING

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
- TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.

This lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the use to the presence of un-insulated dangerous Voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

Warning: To reduce the risk of electric shock, do not remove cover (or back) no user servicing to qualified service personnel.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying suppliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3 Read all warnings.
4 Follow all Instruction.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (Including amplifiers) that Produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two Blades with one wider than the other. A grounding type plug has two blades and a third grounding Prong. If the provided plugs does not fit Into your outlet, consult an electrician for replacement of The obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience Receptacles, and at the point where they exit form the appliance.
11. Only use attachments or accessories specified by the manufacturer.
12. Unplug the apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been Damaged in anyway, such as power supply cord or plug is damaged, liquid has been spilled or Objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does Not operate normally, or has been dropped.

This appliance shall not be exposed to dripping or splashing water and no object filled with liquids Such as vases shall be placed on apparatus.

AMP120 Powered Amplifier

Congratulations on your purchase of an OSD Powered Amp!

120 Powered Amplifier. Please take a few moments to read this entire manual, and be sure to retain this document for future reference please read and observe all safety instructions detailed on page.

Note: If any part of this product is damaged or missing, Please call OSD Audio Return Department

Installation

The AMP120 amplifier can be placed on a shelf in an equipment rack, or on a table or cabinet. Be sure to allow some clearance for ventilation and heat dissipation.

Using the controls/ Front Panel

Power

On the front of the AMP120 are the power button plus speaker selector, a master balance and a master volume adjustment.

Power - the front panel switch will manually switch the power on or off.

Speaker Selector - select speaker pair A (main) or speaker pair B (auxiliary) for audio output. You can use speakers A and B together, as long as the speakers are at a minimum 8-ohm impedance.

Balance - adjust speaker output balance between right and left channels. The default setting is at center.

Volume - adjust the speaker output volume. If using Bridged mode, set the volume at minimum, then adjust to the desired level.

Using The Controls/ Back Panel

Manual/Auto On

The AMP120 amplifier can be turned on manually or automatically by setting a switch on the rear panel. For manual power on or off, press the Power button on the front panel. For automatic power on, set the switch to Auto On, and place the front panel power button in the "On" position. When music is sensed on either input RCA connector, the amplifier's signal sensing sends a command for it to power on. Once the signal ends, the amplifier turns off.

Protection Circuitry

Special circuitry has been designed into the amplifier to safeguard under a short-circuit condition. A faulty speaker can also cause a short-circuit condition. If this fault condition occurs, turn off the amplifier and check speakers for short-circuit conditions when appropriate.

Unswitched Outlet

The AMP120 amplifier has a built-in outlet on the back panel. This 120 VAC outlet provides 400W unswitched power for a device such as a small powered subwoofer. This switch provides power as long as the AMP120 is plugged into an outlet, whether or not the unit itself is powered on.

Speaker Cable

When connecting speakers to the AMP120 amplifier, use a minimum 16 gauge and maximum 12 gauge stranded copper cable. Avoid leaving stray strands and keep polarity consistent.

SYSTEM CONFIGURATION - STEREO MODE

The AMP120 dual source capability. If two sources are used, connect the source you want to listen to most of the time to Line 2 (secondary) input and the source you listen to less to the Line 1 (primary) input.

Whenever the Line 1 (primary) source becomes active, that signal will take priority over the distributed audio signal on the Line 2 (secondary) input. The signal remains active but not heard on the Line 2 input, and once the Line 1 audio signal is muted or turned off, the AMP120 will automatically switch back to the Line 2 (secondary) audio signal.

Stereo Mode

1. Unplug the AMP120
2. Set the Stereo/Bridge switch to Stereo
3. Connect the audio line output from a stereo preamplifier or source to the left and right Line 2 input jacks of the AMP120 (for secondary source).
4. Connect the audio line output from the primary source to the Line 1 input jacks in the same manner.
5. Connect your speakers to the terminals, observing proper polarity.
6. Restore power to the amplifier. Use the front panel knobs for Balance and Volume adjustments.

SYSTEM CONFIGURATION - BRIDGED MODE

In this mode both the left and right channels are combined for a higher power mono output.

NOTE: The minimum impedance for the total load connected to a pair of channels in the bridged mode is 8 ohms.

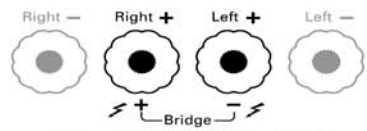
Bridged Mode

1. Unplug the AMP120
2. Set the Stereo/Bridge switch to Bridged Mono.
3. Connect the line out from a preamplifier or source to the right channel Line 2 input of the AMP120. Do not connect any input to the Left channel input.
4. On Speaker A, connect the negative lead (-) of the speaker cable to the L(+) terminal. Connect the positive lead (+) of the speaker cable to R(+) terminal. (See the Bridge markings on the terminals on the rear panel). An 8 ohm minimum load is recommended.
5. Restore power to the amplifier.
6. On the front panel, set the Balance to center, and set the Volume to Min. (minimum). Adjust the output with the volume control to the desired level.

TECHNICAL SPECIFICATIONS

AMP120 Amplifier

Continuous Output Power:	60W per channelat 8 ohms
(<1.0% THD+N) @ 1kHz	75W per channel at 4 ohms
	160W bridged mono at 8 ohms
Signal-to-Noise Ratio:	100dB A-weighted
Frequency Response:	10Hz to 30kHz +0.0dB/-3.0dB @ 8 ohms, 1W
Input Sensitivity:	900mV for 50W at 8 ohms
Crosstalk:	> 70dB @ 1 kHz
Power Requirements:	120 VAC 60Hz 4.2A
Dimensions:	16.5"W x 8"D x 2.5"H
	(41.9 x 20.3 x 6.4 cm)
Weight:	10.4 lbs. (4.68 kg)



Bridged Mode Connection Detail

WARRANTY & REPAIR

OSD AUDIO: Warrants its amplifier products against defects in materials and workmanship for a limited period of time. For a period of two years from date of purchase, we will repair or replace the product, at out option, without charge for parts and labor. Customer must pay all parts and labor charges for factory refurbished products. Expires after ninety (90) days from date of original purchase.

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